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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/619,615	07/19/2000	Hyun Duk Cho	K-190	2166

34610 7590 10/22/2003

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EXAMINER

KASSA, YOSEF

ART UNIT	PAPER NUMBER
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2625

DATE MAILED: 10/22/2003

5

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/619,615

Applicant(s)

CHO ET AL.

Examiner

YOSEF KASSA

Art Unit

2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 July 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 and 8-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 6 and 7 is/are allowed.
- 6) ☒ Claim(s) 1,5,8-14,16,17 and 19 is/are rejected.
- 7) ☒ Claim(s) 2-4,15 and 18 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 October 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 5, 8-14, 16, 17 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishio et al (5,995,666), and further in view of Fraser et al (5,430,486).

With regard to claim 1, Nishio discloses a first core part that encodes a moving picture (see Fig. 1, items 102, 103, 112 and 113), at a first quantizing value corresponding to a first display resolution or encodes a frame unit still picture (see Fig. 1, item 100, 101, 110 and 111), a VLC that encodes data encoded at the first core part in lengths different from each other (see col. 4, lines 18-23); and an output unit that outputs an encoded bit stream of output data of the VLC (see col. 4, lines 62-67).

Nishio is silent about encoding high resolution image data. In the same field of endeavor, however, Fraser discloses this feature (see col. 2, lines 34-37). At the time of the invention, it would have been obvious to incorporate a high resolution video image and still image transmission and storage process as taught by Fraser et al in the system of Nishio because Fraser et al provides Nishio system a step of a high resolution

images to be recorded and transmitted on video equipment with minimum loss of resolution.

With regard to claim 5, Nishio discloses the first core part and the VLC repeatedly encode a single frame data stored in the frame memory (see col. 3, lines 30-37).

With regard to claim 8, Nishio discloses extracting one of a frame unit of still pictures and a moving picture (see col. 3, lines 28-38); encoding one of the extracted still picture and the moving picture (see col. 3, lines 44-47).

Nishio does not explicitly call for transmitting the encoded still picture at a higher resolution than the encoded moving picture. In the same field of endeavor, however, Fraser discloses this feature (see col. 2, lines 8-18). At the time of the invention, it would have been obvious to incorporate a high resolution video image and still image transmission process as taught by Fraser et al in the system of Nishio because Fraser et al provides Nishio system a step of a high resolution images to be recorded and transmitted over to high resolution image receiver.

With regard to claim 9, Nishio is silent about encoding the extracted still picture in a fixed quantizing value and storing the quantized still picture, and wherein the transmitting comprises transmitting the stored still picture in a still picture transmission mode. However, this feature is taught by Fraser (see col. 2, lines 14-18 and col. 2, lines 34-38).

With regard to claim 10, Nishio is silent about the quantized still picture is stored in a frame memory in a decoder of a picture terminal. This feature is taught by Fraser (see col. 8, lines 24-31).

With regard to claim 11, Nishio discloses the encoding the extracted still picture comprises encoding the still picture in an I picture coding, and wherein the transmitting comprises transmitting the encoded moving picture in a moving picture mode (see col. 7, lines 1-10).

With regard to claim 12, Nishio discloses the encoding comprises repeatedly encoding the extracted still picture until the still pictures have a prescribed resolution (see col. 3, lines 31-38).

Claim 13 is similarly analyzed as claims 1 and 8.

With regard to claim 14, Nishio discloses the still pictures are stored in a frame memory in a decoder of a picture terminal (see col. 6, lines 1-15).

With regard to claim 16, Nishio discloses the fixed encoding encodes the still picture in an I picture coding (see col. 3, lines 44-47).

Claim 17 is similarly analyzed as claim 13.

With regard to claim 19, Nishio discloses the encoding repeatedly encodes the still picture frame before the transmission (see claim 3, lines 31-38).

Allowable Subject Matter

1. Claims 2-5, 15 and 18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

2. Claims 6 and 7 are allowed.

The following is an examiner's statement of reasons for allowance. The closest prior art of record failed to teach or suggest, an encoding frame memory that stores a prior picture frame for motion estimation and compensation, an encoding core part that receives and encodes a picture frame by using the encoding frame memory a decoding core part that decodes the picture frame from the encoding core part, a decoding frame memory that stores a prior picture frame for decoding of the decoding core part in a moving picture mode, and in combination with all the other limitations in the claims 6 and 7, claims 6 and 7 are allowable.

Other Prior Art Cited

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent No. (6,064,795) to Uchida discloses method of and apparatus for data recording...

US Patent No. (5,220,325) to Ackland et al discloses hierarchical variable length decoder for digital video data.

US Patent No. (5,608,697) to De Haan et al discloses record carrier containing an audio and/or video signal...

US Patent No. (5,915,038) to Abdel-Mottaleb et al et al discloses using index keys extracted for JPEG compressed images for image retrieval

US Patent No. (5,432,769) to Honjo discloses apparatus for intermittently recording or reproducing variable length coded video data.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOSEF KASSA whose telephone number is (703) 306-5918. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BHAVESH MEHTA can be reached on (703) 308-5246. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9306 for regular communication and (703) 872-9306 for after Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the customer service office whose telephone number is (703) 306-5631. The group receptionist number for TC 2600 is (703) 305-4700.

PATENT EXAMINER

Yosef Kassa

10/14/03.


TIMOTHY M. JOHNSON
PRIMARY EXAMINER